

SUMMARY DOCUMENT

Claims 1-2 (canceled)

Claim 3 (currently amended): The method in claim 2 A method for connecting an external electrical conductor to a porcelain enameled metal substrate electrical circuit device comprising:

- (a) providing a porcelain enameled metal substrate having an aperture formed therein;
 - (b) inserting a hollow mechanical fastener through the aperture;
 - (c) mechanically fastening the fastener to the metal substrate so as to form an eyelet;
 - (d) inserting the external electrical conductor into the eyelet;
 - (e) applying solder to the external electrical conductor and the eyelet,
- wherein the external electrical conductor is a wire, and the eyelet is comprised of brass.

Claim 4 (original): The method in claim 3 wherein the eyelet is electrically connected to a conductor on at least one surface of the electrical circuit device.

Claim 5 (original): The method in claim 4 wherein the eyelet is soldered to at least one surface of the electrical circuit device.

Claim 6 (currently amended): The method in claim 31 wherein the external electrical conductor is a lead to an electronic component.

Claims 7-16 (canceled)

Claim 17 (currently amended): A circuit device as set forth in claim 11 A
circuit device comprised of a porcelain enameled metal substrate having a
conductive circuit formed thereon and an external electrical conductor attached
thereto comprising a metal base coated with porcelain enamel and an aperture
formed in said base, said aperture having mounted thereon a fastener, said electrical
conductor being soldered to said fastener, wherein said porcelain enamel metal
substrate includes two major surfaces, and said conductive circuit is formed on both
of said major surfaces.

Claim 18 (original): A circuit device comprised of a porcelain enameled metal substrate having a conductive circuit formed on each side of said substrate comprising a metal base coated with porcelain enamel and an aperture formed in said base, said aperture having mounted therein a fastener, said fastener electrically connecting said conductive circuits formed on each side of said substrate.

Claim 19 (new): The circuit device as set forth in claim 17 wherein the external electrical conductor is a wire.

Claim 20: (new): The circuit device as set forth in claim 17 wherein the external electrical conductor is a lead to an electronic component.

Claim 21 (new): The circuit device as set forth in claim 17 wherein the external electrical conductor comprises a length of flexible copper wire.

Claim 22 (new): The circuit device as set forth in claim 17 wherein the fastener is mechanically crimped to the metal substrate.

Claim 23 (new): The circuit device as set forth in claim 17 wherein the fastener is electrically insulated from the metal substrate.

Claim 24 (new): The circuit device as set forth in claim 17 wherein the fastener is electrically connected to the conductive circuit.

Claim 25 (new): The circuit device as set forth in claim 17 wherein the fastener forms an eyelet, and the eyelet is comprised of brass.

Claim 26 (new): The circuit device as set forth in claim 25 wherein the eyelet is electrically connected to a conductor on at least one surface of the electrical circuit device.

Claim 27 (new): The circuit device as set forth in claim 25 wherein the eyelet is soldered to at least one surface of the electrical circuit device.

Claim 28 (new): The circuit device as set forth in claim 17 wherein the metal substrate comprises low carbon steel.

Claim 29 (new): The circuit device as set forth in claim 18 further comprising an external electrical conductor.

Claim 30 (new): The circuit device as set forth in claim 29 wherein the external electrical conductor is a lead to an electronic component.

Claim 31 (new): The circuit device as set forth in claim 29 wherein the external electrical conductor comprises a length of flexible copper wire.

Claim 32 (new): The circuit device as set forth in claim 18 wherein the fastener is mechanically crimped to the metal substrate.

Claim 33 (new): The circuit device as set forth in claim 18 wherein the fastener is electrically insulated from the metal substrate.

Claim 34 (new): The circuit device as set forth in claim 18 wherein the fastener is electrically connected to at least one of the conductive circuits.

Claim 35 (new): The circuit device as set forth in claim 18 wherein the fastener forms an eyelet, and the eyelet is comprised of brass.

Claim 36 (new): The circuit device as set forth in claim 35 wherein the eyelet is soldered to at least one surface of the electrical circuit device.

Claim 37 (new): The circuit device as set forth in claim 18 wherein the metal substrate comprises low carbon steel.